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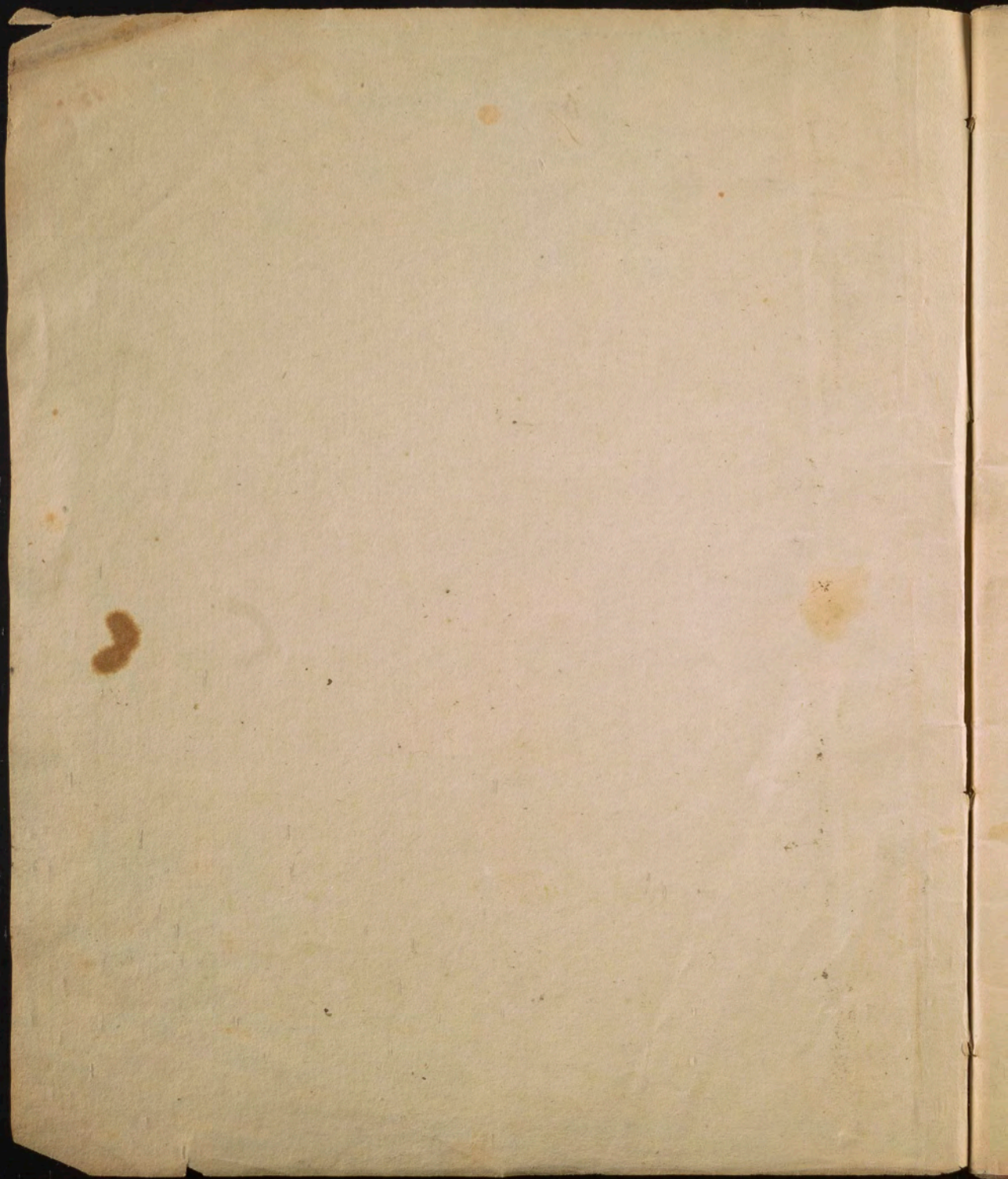
on Pathology Defin<sup>n</sup> of it 15.

on the Uses of Dissections. 5

Definition of Disease. 15.

Causes of Disease *ibid*



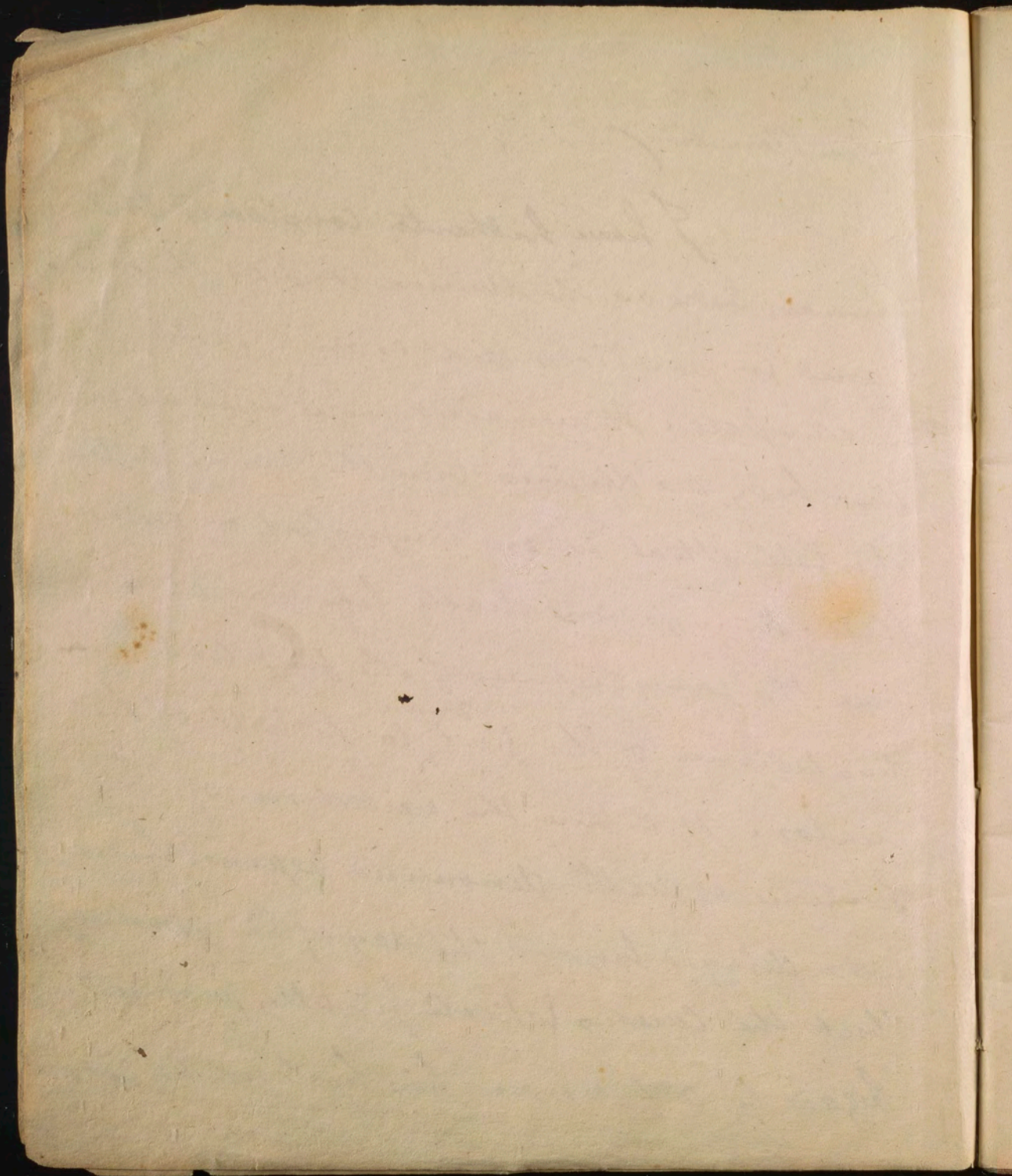




1  
Gentlemen

I have hitherto considered the human body as the Divines consider the human mind in paradise, that is in a perfect or healthy state. It remains now that we view this body as Divines view the mind after the fall, that is in an imperfect or diseased state. Sickness and death like moral evil were the consequences of the first act of the disobedience of the first <sup>man</sup> to the will of his creator. It is true the execution of the sentence of death denounced against him, was delayed beyond the day of his apostasy, but the causes which finally produced it began to act upon his system as soon







he lost ~~his~~ image of his maker. Every  
 element in nature took part with his  
 offended creator, and conspired to destroy his  
 life. Their operation for a while was full  
 and slow. - hence we read that men for  
 2000 years after the fall, attained to the great  
 age of nearly a thousand years. It was  
 not for some time after the deluge that  
 the life of man was contracted to its pre-  
 sent limits. Many causes concurred to  
 produce this change in the duration of  
 human life. One of the most powerful  
 has been the influence of the deluge upon  
 the surface of the earth, & the temperature  
 and quality of the atmosphere; but  
 other causes seem to have combined with







3  
it, for not only the earth & Air, But the  
Sea - all our Aliments and Drinks - all  
our occupations & pursuits - insects and  
reptiles - wild and Domestic Animals,  
our own malignant passions, may  
even our very pleasures all seem to have  
to have taken part with the offended  
Majesty <sup>of heaven</sup>, and to have conspired to destroy  
the life of man. That life is the effect of  
impressions, and preserved only by the  
moderate degree of them, or by counter-  
-acting Stimuli ~~too~~ is no less consonant  
to Religion, than to true philosophy. It  
would seem as if life <sup>were</sup> ~~was~~ the offspring of  
a constant strife, and <sup>that</sup> it owed its existence  
for 10, 20, 50 & even an 100 years



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Wholly to the <sup>success</sup> ~~temporary~~ victories of the  
stimuli enumerated in the lectures upon  
animal life, over the causes which con-  
-spire to extinguish it.

In entering upon the history of the nu-  
-merous & distressing diseases to which the  
human body & mind are exposed, let us  
not arraign the divine Goodness nor suppose  
the benevolent Father of the human race de-  
-lights in the <sup>pain or sickness</sup> ~~misery~~ of his creatures. ~~This~~  
~~is~~ This is so far from being the case, that  
they are both blessings in disguise, and in  
the present imperfect state of human nature  
are absolutely necessary to individual and  
general happiness. To console <sup>us</sup> ~~you~~ under  
the melancholy view of human misery



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which I am about to lay before you,  
I shall briefly mention the kind, and  
important uses which diseases are pro-  
- bably intended to answer in the present  
state of the ~~more~~ world.

1 Diseases lead us to the study of Anatomy,  
whereby we are led to admire the infinite  
wisdom & goodness of the Supreme Being  
discovered in the structure of the human  
body. Without such objects as the removal  
of diseases, and the preservation of health,  
who would ever handle a dissecting knife  
or enter an anatomical ~~lecture~~ theatre?

- The senses <sup>and</sup> ~~conspire to render them both~~  
~~disagreeable, and nothing but duty and ha-~~  
~~bit~~ <sup>And unless this were done,</sup> without the objects all the wisdom



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and goodness of the Supreme Being disowned  
 in the structure of the human body would  
 have <sup>would have</sup> perished upon it in vain, and perished  
~~it~~ with it when it descended into the  
 grave.

2 Diseases have been the means of impelling  
 us to the study not only of the <sup>structure</sup> ~~anatomy~~  
 of the human body, but of all other  
 animals in order to discover the uses  
 of every part of them, <sup>many of which would</sup> ~~the~~ knowledge thus  
 obtained, has been called Physiology. Much  
 as we derive from ~~books~~ the examination  
 of dead bodies, whether those of our species  
 or ~~books~~ ~~Dead~~ ~~Animals~~, ~~its~~ ~~many~~  
 of the <sup>functions</sup> ~~parts~~ ~~of both worlds~~ <sup>have</sup> never been  
 known to us had they ~~they~~ not been  
 discovered by ~~means of~~ the effects of



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7

diseases upon them.

3 Diseases have led us to study the works of the Creator in the Vegetable, mineral and Animal Kingdoms. It is true many of the wants of man in civilized Society have impelled him to explore the wilderness and bowels of the earth, but how few <sup>produced</sup> discoveries have those wants ~~made~~ in the ~~study of~~ <sup>natural history and chemistry</sup> ~~chemistry and natural history~~ compared with the more powerful motive of obtaining relief from sickness and pain?

4 Diseases <sup>by imposing constant study</sup> ~~possessing a powerful influence upon the mind~~ and attention ~~is~~ in search of their ~~causes and remedies~~ <sup>causes, seats, symptoms and remedies</sup>, contribute very much to improve and extend the intellectual faculties of the mind.







5 Without Discons, <sup>6</sup> the exercise of the  
~~the exercise of the~~  
moral virtues, particularly of humanity  
and benevolence would have been very  
much limited in their operations. How  
small are the distresses of poverty when  
unaccompanied with sickness! — It is  
in Hospitals & Dispensaries in which  
Charity finds the most ample & constant  
employment, and in which man is  
permitted to become in the most eminent  
Degree  
the deputy of that Attribute of the Deity  
which delights in the relief of human  
misery.

6 The human body & mind are so formed  
that Contrast is necessary to their pleasures &  
happiness. The ~~calm~~ serene & temperate  
weather of June, is rendered more pleasant by



and



9

recollecting the cold & storms of winter - the  
morning light, chess us most when it has  
succeeded a ~~night~~ long night of darkness;  
- Deformity renders ~~beauty~~ more captivating,  
and the evils of error & vice ~~render~~ <sup>enhance</sup> the  
charms of truth & virtue. In like man-  
-ner the insatiable blessing of health <sup>is</sup> & de-  
-rived ~~its principal~~ <sup>chiefly from</sup> ~~its principal~~ <sup>its</sup> being its  
having been preceded, ~~by sickness & pain~~ <sup>by the dread of</sup>  
its being followed by sickness & pain.

7 Did we relinquish our present comfortable  
residence in this world in the full enjoyment  
of health, and of all the blessings that are  
connected with it, death would be terrible to  
us in prospect, beyond the possibility of en-  
-doring it; but diseases are kindly sent to  
reconcile us to death, nay more in some  
instances to render it the first object of our





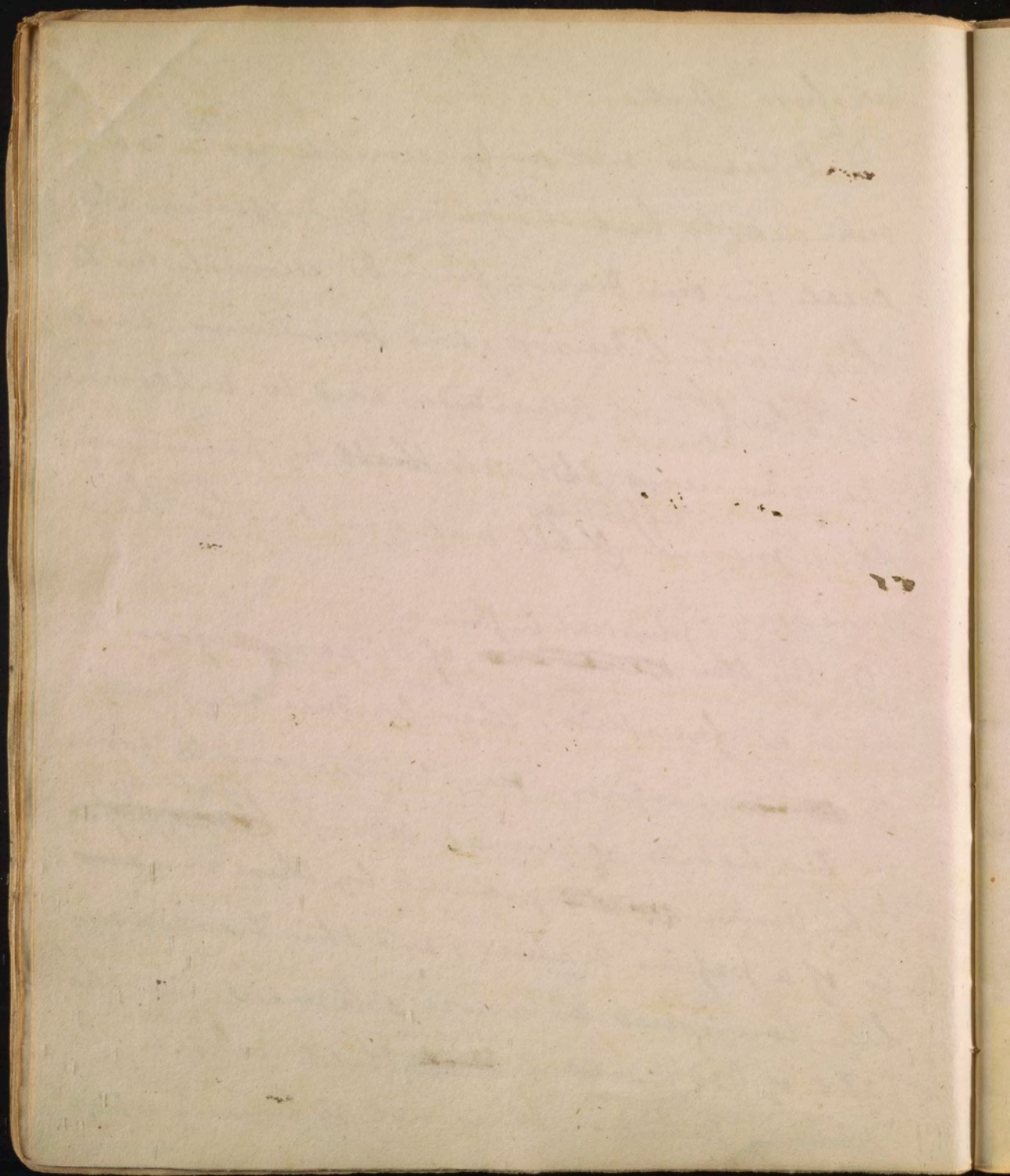


wishes. But

by Diseases not only wound us to our own deaths, but the pains & sufferings they create in our dearest friends, wound us to their deaths likewise, and sometimes cause us to look <sup>for</sup> with solicitude, and to welcome the moment which ~~shall~~ by terminating their present <sup>sufferings</sup> shall put an end to their misery. physical influence.

9 By the ~~operation~~ of Diseases upon the moral faculties, they conduce very much to ~~improve~~ improve our virtues and to form in us habits of moral order. & <sup>goodness</sup> ~~sufferings~~ The virtue ~~produced~~ produced by these means is of a passive nature, and this has always been considered as more estimable in the light of God & man <sup>than</sup> ~~that~~ that which is simply active. "It is not so much a sign







of a great many says (Wm Penn) to do great things <sup>things</sup> with <sup>with</sup>  
~~good~~, as it is to suffer great ~~with suffering~~

... as to the virtue of  
~~the mind and constitution~~<sup>the</sup> resignation and  
fortitude. Thousands of thousands ~~have~~ of  
people have ~~and~~ acquired this papine virtue  
by the sufferings of a dangerous acute, or  
chronic disease. combined  
... toured the

by the day, combined  
chronic disease.  
10<sup>th</sup> ~~Voluntary~~. We have hitherto mentioned the  
~~effects~~ of disease & pain, but pain alone  
has many advantages connected with it.

has many novelties.  
~~It is probably one of the first impressions~~  
~~upon the body in the production of life.~~  
 Cases of the seats

It informs us in many cases of the seats of diseases, - it is ~~the~~ one of their principal signs, and when it occurs in their early stage it ~~is~~ disposes sick people to desist from their <sup>ordinary</sup> pursuits, and to seek by rest, or medical aid for relief. ~~It~~ It imparts







vigor & activity to the mind, and in the  
 last place it is a remedy for many  
 diseases. <sup>The universal</sup> ~~this is evident~~ practice of man-  
 -kind <sup>has always done</sup> ~~has~~ borne witness to the pain in certain  
 circumstances of the system. We are  
 too disposed to suspect a child is ~~is~~ dead,  
~~as in great degree of death~~ when it does  
 not utter signs of pain <sup>from the first insinuation of the air upon</sup> ~~and but no action~~  
 its lungs & skin, and we are ~~dis-~~ <sup>express</sup>  
 -truded when our friends cease to ~~express~~  
 their pain by groans or tossings in their  
 beds in the critical and dangerous state  
 of their diseases. But the beneficial effects  
 of pain are best seen in the mortality  
 of those diseases which come on without  
 it, such as Consumptions, Cancers,  
 chronic inflammation of the liver &  
 frozen limbs. In the last, ~~the~~ we are



V I have thus far spoken of the benefits we  
derive from what are called acquired diseases  
only; but the body derives great benefit  
from what I have called natural ~~and~~  
or what might be called "healthy" diseases.  
~~These are~~ These are Sleep - Hunger - Thirst - Men-  
-struation - pregnancy and parturition. They  
~~help to~~ the latter are necessary to give the  
first impulses to life - the former are  
necessary to preserve it. In short the  
body is kept alive as certainly by those  
diseases, as it is by ~~the~~ <sup>by</sup> the constant in-  
-halation of air, and <sup>by</sup> the daily use of  
Aliment. - But <sup>by</sup> even acquired diseases  
~~where they are of an acute nature often~~  
~~carry off~~ carry off habitual or chronic diseases, &  
sometimes destroy the predisposition to  
them. The plague, and yellow fever  
have often in this way added years <sup>to</sup>  
of ~~the~~ <sup>the</sup> life and health ~~to~~ <sup>to</sup>  
of persons previously ~~of the body~~ the most  
delicate constitutions, and who were often



told in some northern countries, the  
toes are destroyed without the patient feeling  
any pain, and the cold thereby permitted to  
affect the whole body with disease & death.

V. In entering upon this part of my  
course I am left with fewer <sup>aids</sup> ~~resources~~  
from my predecessors, ~~in this~~ <sup>than</sup> from any  
of the branches of medicine. Dr Boerhaave  
began a system of pathology, but left it  
in an imperfect state. Dr Haller and Dr  
Hoffmanns works abound with excellent  
pathological remarks, but they are  
without order or principles. Dr Quarinus  
has given us an <sup>extensive</sup> ~~complete~~ system of  
pathology, but it founded so exclusively  
upon the humoral pathology of his



= indisposed with subtle but dangerous diseases.  
The healthy diseases may be compared to the <sup>daily</sup> constant  
Variations in the temperature and motions of  
the Air  $\pm$  see below

~~If I have thus far spoken only of what  
may be called acquired diseases only, but the  
body ~~has~~ derives great benefits from what I have  
called natural or vital diseases such as sleep,  
hunger, thirst, <sup>menses</sup> pregnancy & parturition.~~

~~They are necessary to originate as well as  
to preserve ~~the~~ life of the human body.  
In short ~~the~~  
this body is  
kept alive by these diseases as certain-  
ly as we are by the Air we breathe, and  
by our daily Aliment.~~

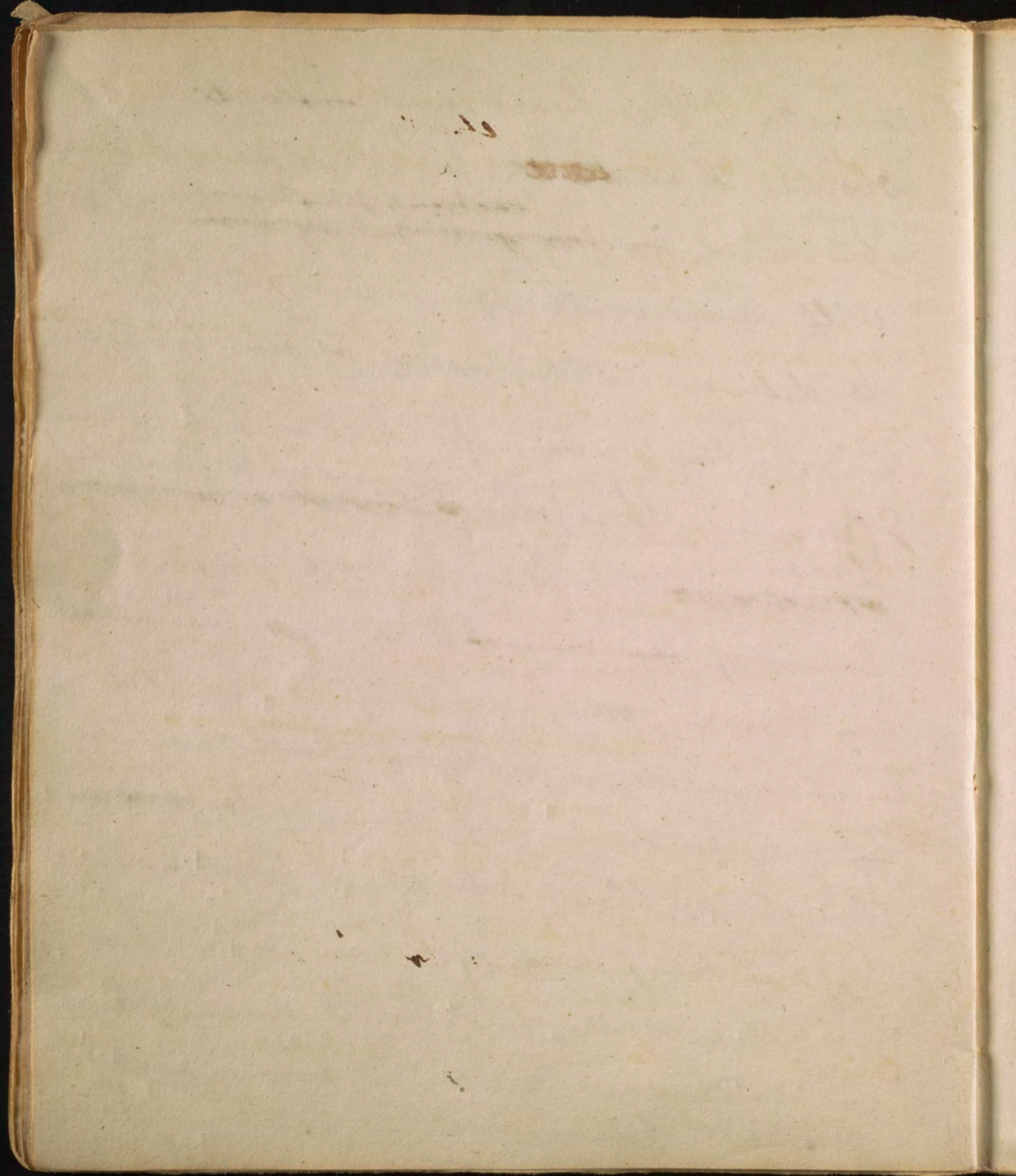
~~$\pm$  which preserve its purity & healthiness,  
while the acquired diseases resemble rumi-  
-cenes which with all the terror & desolati-  
-on they spread thro' a Country, even &  
then chase away Epidemics, & cure  
old ~~and~~ diseases which had long eluded the  
power of medicine.~~



master D Boerhaave, and with all is so  
 obscure that ~~little~~<sup>no</sup> assistance can be derived  
 from it ~~in <sup>teaching pathology</sup> ~~deriving pathology~~~~ that  
 will accord with the principles I purport  
 to deliver in this part of our Course.

In the wilderness that is before me  
 I venture therefore ~~alone~~<sup>alone and with trembling</sup> ~~steps~~  
~~steps~~. The stars by night, and the <sup>by</sup>  
 Course of the ~~river~~ streams of water shall  
 day, or in other words, facts as real & as  
 unchangeable as <sup>the stars & streams of water</sup> ~~with~~ shall be  
 my only guides in my attempt to ~~find~~  
 through it. Should I be seduced for a moment  
 by any thing that shall counterfeit those  
 great & certain marks, I sincerely hope  
 you may <sup>at</sup> once detect my error, and  
 refuse to follow me.







15

By Pathology I mean that Science which  
treats of the causes, <sup>effects,</sup> seats & signs of dis-  
eases.

There have been many definitions of  
disease. ~~There~~ The least exceptionable  
of any that I have met with is that  
which Dr Sydenham has rejected in the  
preface to his works. It is as follows.

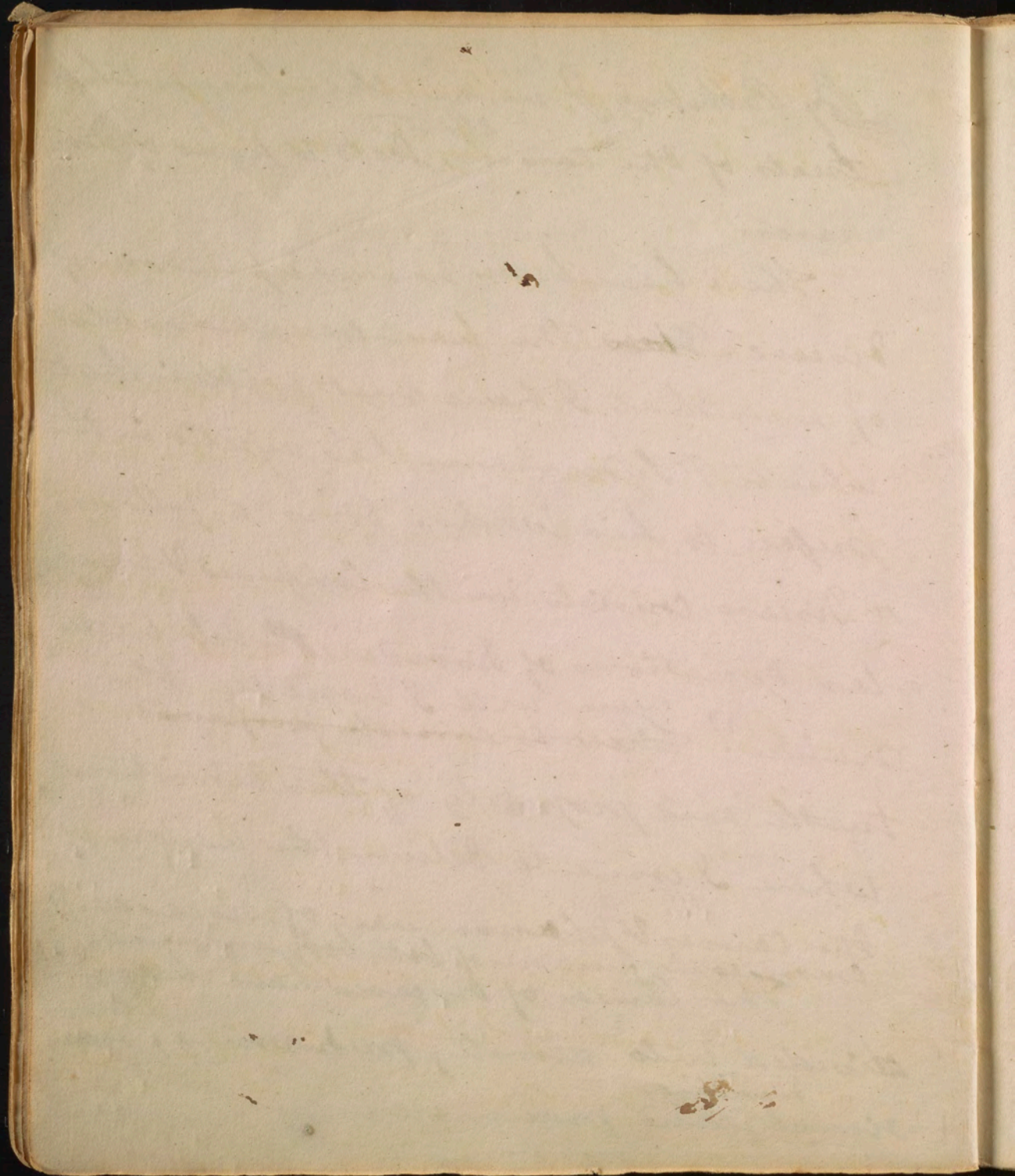
"Disease consists in the Confused & irregu-  
lar operations of disordered & debilitated  
nature." You will I hope see the

truth and propriety of this definition  
when I come to deliver the history of

the causes & phenomena of diseases. It  
embraces the functions of both body and mind.

The causes of diseases have been  
divided into remote, predisposing, occa-  
sional, <sup>or exciting,</sup> and proximate.







16

I shall briefly illustrate what I mean  
by each of them by two or three ex-  
-amples.

The Action of Cold is the remote cause  
of inflammatory fever. The debility &  
excitability in the blood vessels induced by  
this Cold is ~~the~~ its predisposing cause.

The heat of a the Vernal sun, or a stove  
room, or of a warm bed is its occasional  
or exciting cause, and a Convulsion in  
the blood vessels its proximate cause  
by which I mean <sup>what</sup> ~~with~~ Dr Gambier  
calls "ipoe morbus," or the disease  
itself. -

Again - Marsh exhalations are  
the remote cause of bilious fever, the  
debility and excitability induced <sup>by them</sup> in the





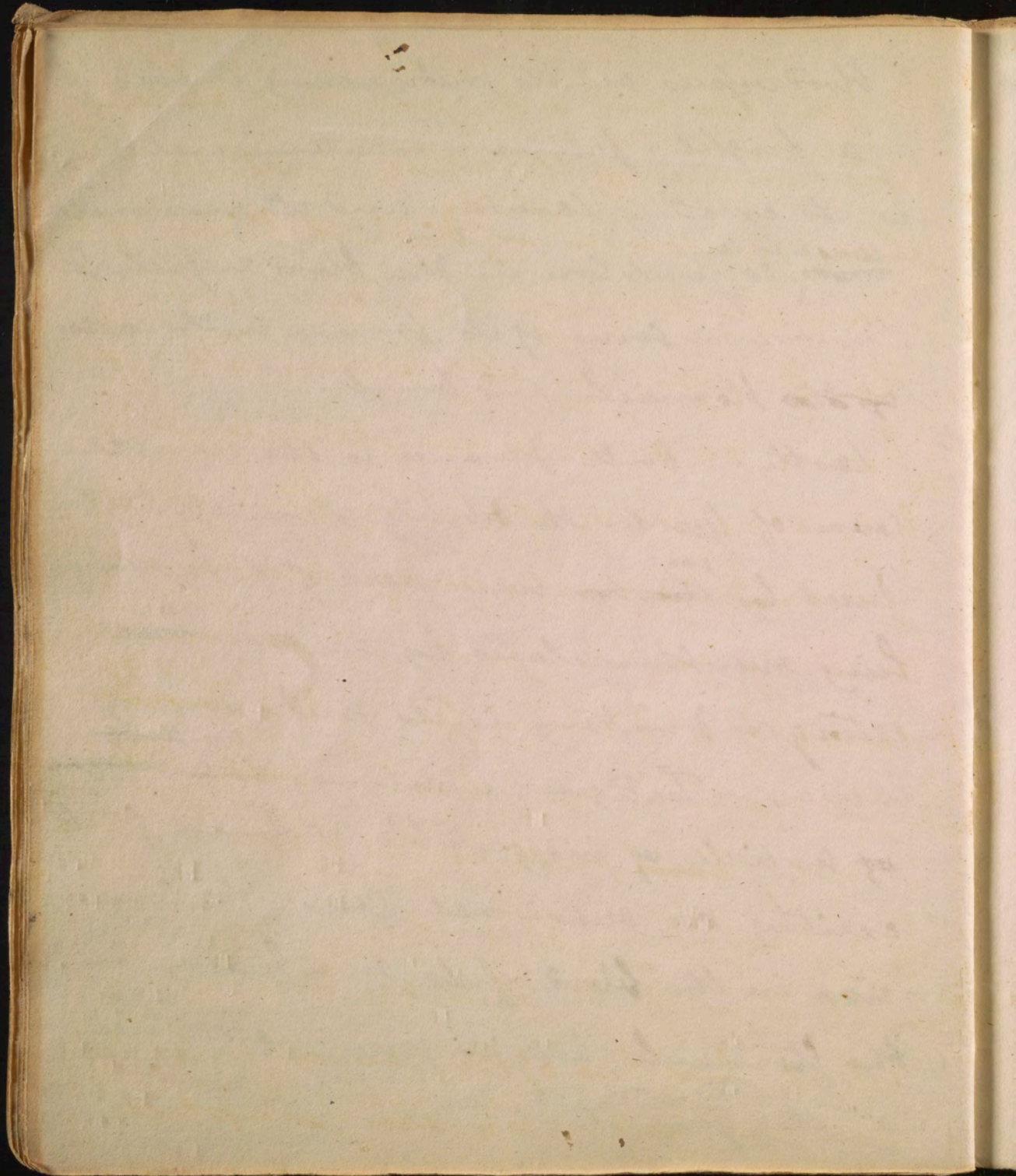


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blood vessels are its predisposing cause -  
- a fright - fatigue - <sup>or</sup> an intemperate meal  
is its existing cause - and its proximate  
<sup>cause is a</sup>  
~~convulsion~~ convulsion in the blood vessels &  
Disease in some of its forms in the ~~causes~~  
~~of the~~ stomach and bowels.

Lastly. - Intemperance is the remote  
cause of Gout - the debility & excitability in-  
duced <sup>in</sup> by ~~the~~ <sup>in</sup> every part of the system  
being overstimulated by the excess <sup>in</sup> ~~of~~  
eating & drinking is its predisposing  
cause, - Fatigue, watching, or a <sup>an</sup> ~~Drinking~~  
~~of~~ article of indigestible Aliment, is its  
existing or occasional cause, & a Convul-  
sion in the blood vessels or a Spasm in  
the stomach, are its proximate cause,  
or the Gout itself. -







You are not to suppose that ~~all these~~  
 Concurrence of the remote, - predisposing  
 & exciting causes, <sup>like</sup> ~~as~~ distinct links of a  
 chain are necessary to produce each of  
 those diseases. By no means. Cold may  
 become at once the remote - predisposing  
 & exciting Cause of an inflammatory  
 fever. Miasmata may become at  
 once the remote - predisposing & exciting  
 cause of a bilious fever, & a <sup>fit of</sup> ~~decubitus~~  
 intoxication may become both the  
 remote - ~~caus~~ predisposing & exciting cause  
 of a paroxysm of Gout.

But further, - there are Diseases in  
 which ~~but~~ two of the causes prior to  
 the proximate, <sup>are constantly united.</sup> ~~are ever combined.~~



The first of these is the fact that the  
the cause of the disease is the  
of existing disease, and the  
there is a tendency to find the  
the disease. It is not  
known as soon as the cause is  
the existing cause of the  
from. The cause is not  
from the cause. The  
cause of a disease is the  
in the cause. The  
cause is not the  
of a disease. The  
the cause. The  
the cause. The



For example 19 is at all times both -  
Thus, a nail in the foot is the remote  
& exciting cause of Tetanus; and the poison  
causes of ~~great~~ debility & excitability in  
of a rabid animal, as also the various  
the muscles, its predisposing, & convulsive  
motion in the muscles its proximate  
matter are at all times both the remote  
& exciting causes in the former case of  
Hydrophobia, & in the latter of the small  
pox. —

Once more, there are cases in which  
the remote ~~cause~~ becomes at once the  
predisposing, & exciting causes are to  
completely united ~~and~~ in the production  
of disease. Thus the exhalations from  
a hoghead of putrid river water ~~the~~ <sup>because</sup>  
produced death in a number of sailors at

Rochfort without the apparent inter-  
-vention of debility, predisposing debility



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the aid  
or ~~an existing~~ of <sup>the</sup> ~~an~~ additional stimulus  
of an existing cause.

I have delivered these definitions  
& explanations of the causes of diseases  
in conformity to the practice of the old  
schools of medicine. They will be resumed  
in another form <sup>and with some amplification</sup> in our history of the

phenomena & formation of disease,  
which will be the next object of our  
attention. For this purpose I shall <sup>first</sup>  
deliver & endeavour to demonstrate a  
few general propositions.







